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OCTOBER 18, 2001

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SAMUELS, GAUTHIER & STEVENS LLP
PATRICK J. O'SHEA
225 FRANKLIN STREET, SUITE 3300
BOSTON, MASSACHUSETTS 02110



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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE
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CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.
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RECORDATION DATE: 08/13/2001

REEL/FRAME: 012069/0867

NUMBER OF PAGES: 4

BRIEF: RECORD TO CORRECT ASSIGNEE STATE OF INCORPORATION ON A DOCUMENT
PREVIOUSLY RECORDED AT REEL 010608, FRAME 0384.

ASSIGNEE:

GOLDSTEIN, JASON A.
OCTAVE COMMUNICATIONS, INC.
5 INDUSTRIAL WAY
SALEM, NEW HAMPSHIRE 03079

DOC DATE: 01/24/2000

SERIAL NUMBER: 09427669
PATENT NUMBER:

FILING DATE: 10/23/1999
ISSUE DATE:

TARA WASHINGTON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

08-17-2001

Docket No: 4587

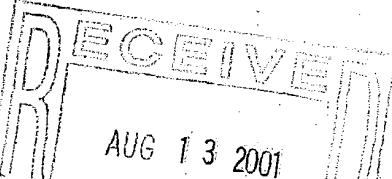
HONORABLE COMMISSIONER OF
PATENTS AND TRADEMARKS
WASHINGTON, D.C. 20231

SIR:

C 8-17-01

101815127

PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENT(S) OR COPY(IES) THEREOF.



1. NAME OF CONVEYING PARTY(IES)

Jason A. Goldstein

2. NAME(S) AND ADDRESS(ES) OF RECEIVING PARTY(IES)

Octave Communications, Inc.
5 Industrial Way
Salem, NH 03079

Additional name(s) of conveying party(ies) attached? No

Additional name(s) of receiving party(ies) attached? No

3. NATURE OF CONVEYANCE

- Assignment
- Security Agreement
- Merger
- Change of Name
- Record to Correct Assignor State of Incorporation on a Document Previously Recorded at Reel 010608, Frame 0384.

Execution Date: 01/24/2000

4. APPLICATION NUMBER(S) OR PATENT NUMBER(S)

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s): 09/427,669 filed 10/23/1999

B. Patent No(s):

C. Issue Batch No.: _____

D. Issue Date: _____

Additional numbers attached? No.

5. NAME AND ADDRESS OF PARTY TO WHOM CORRESPONDENCE CONCERNING DOCUMENT SHOULD BE DIRECTED:

Patrick J. O'Shea
Samuels, Gauthier & Stevens LLP
225 Franklin Street, Suite 3300
Boston, Massachusetts 02110
(617) 426-9180, Extension 121

6. TOTAL NUMBER OF APPLICATIONS AND PATENTS INVOLVED: 1

7. TOTAL FEE DUE: \$40.00 (Enclosed)

If any additional fee(s) are due, the Commissioner is hereby authorized to charge the Deposit Order Account noted in item 8.

8. DEPOSIT ACCOUNT NUMBER: 19-0079

9. STATEMENT AND SIGNATURE
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Patrick J. O'Shea
Name of Person Signing

Patrick O'Shea
Signature

8/8/2001
Date

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the U.S. Patent and Trademark Office, Office of Public Records, Crystal Gateway 4, Room 335, Washington D.C. 20231, Box Assignment.

8-8-2001

Date

Amy M. Flick

Amy M. Flick

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WASHINGTON, D.C. 20231

SIR:

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1. NAME OF CONVEYING PARTY(IES)

Jason A. Goldstein

Additional name(s) of conveying party(ies) attached? No

2. NAME(S) AND ADDRESS(ES) OF RECEIVING PARTY(IES)

Octave Communications, Inc.
5 Industrial Way
Salem, NH 03079

Additional name(s) of receiving party(ies) attached? No

3. NATURE OF CONVEYANCE

- Assignment
- Security Agreement
- Merger
- Change of Name
- Other

Execution Date:

January 24, 2000

4. APPLICATION NUMBER(S) OR PATENT NUMBER(S)

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No(s): 09/427,669

B. Patent No(s): _____

C. Issue Batch No.: _____

D. Issue Date: _____

Additional numbers attached? No.

5. NAME AND ADDRESS OF PARTY TO WHOM
CORRESPONDENCE CONCERNING DOCUMENT
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9. STATEMENT AND SIGNATURE

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Patrick J. O'Shea
Name of Person Signing

Signature

Patrick O'Shea

2/14/2000

Date

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231

Date: 2/14/00

Deborah M. Costello

Deborah M. Costello

ASSIGNMENT

Know all men by these presents

THAT WHEREAS I, Jason A. Goldstein,
of Brookline, MA, have made an invention for

SERIAL-TO-PARALLEL/PARALLEL-TO-SERIAL CONVERSION ENGINE

described in an application filed in the United States Patent and Trademark Office on October 23, 1999, as Serial No. 09/427,669, which claims priority under 35 USC §119(e) from United States Provisional Patent Application Serial No. 60/105,369, filed October 23, 1998; and

WHEREAS Octave Communication, Inc., a corporation duly organized and existing under the laws of New Hampshire and having a place of business at 5 Industrial Way, Salem, NH 03079, for the benefit of itself, its successors and assigns, all inclusively hereinafter referred to as the Assignee, is desirous of acquiring the entire right, title and interest in and to the said invention, the said application, all inventions disclosed in said application, and any and all Letters Patent of the United States and of all other countries which may be granted for the said invention or inventions, or any of them;

NOW, THEREFORE, for good and valuable consideration provided by said Assignee, the receipt whereof is hereby acknowledged, I do hereby sell, assign and transfer to the said Assignee the entire right, title and interest in and to the said invention, inventions and application, including all priority rights arising therefrom, all inventions disclosed in said application, and any and all Letters Patent of the United States, and of all other countries, together with the right to apply for such Letters Patent, which may be granted for the said invention, inventions or any of them.

TO HAVE, HOLD AND ENJOY the said invention, the said application, and the said Letters Patent, to said

OCTAVE COMMUNICATIONS, INC.

its successors and assigns, to its and their own use and behoof to the full end of the term or terms for which the said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.

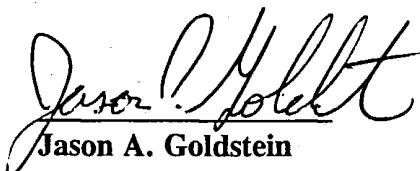
AND I hereby authorize and request the Commissioner of Patents of the United States and the appropriate officers of all foreign patent offices to issue any and all Letters Patent which may be granted on the said application or applications above referred to, or for the said invention, or any of them, to the said Assignee in accordance with the terms or this instrument.

AND I hereby agree to execute and sign without further consideration any other legal document and any other assignments and any divisional, continuing, renewal, reissue or other application in and for all patents that may be appropriate and may be deemed necessary by the Assignee fully to secure to said Assignee its interests as aforesaid in and to the said invention or any part thereof and in and to the said patents or any of them.

AND I further covenant and agree that I will at any time upon request communicate to the said Assignee, its successors, assigns or other legal representatives, any facts known to me relating to the said invention and any patent that may be granted thereon, and will testify as to the same in any interference or litigation when requested to do so.

AND I do hereby covenant for myself and my legal representatives that I have not hitherto assigned or granted any license to make, use or sell said invention, and that I will not henceforth purport to assign, license or execute any instrument to that effect in conflict with this assignment.

IN WITNESS WHEREOF I have hereunto set my hand and seal this 24 day of ~~December, 1999~~ January, 2000.



Jason A. Goldstein

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Jason A. Goldstein

GROUP: 2739

SERIAL NO: 09/427,669

EXAMINER: Unknown

FILED: October 23, 1999

FOR: SERIAL-TO-PARALLEL/ PARALLEL-TO-SERIAL CONVERSION ENGINE

**U.S. Patent and Trademark Office
Office of Public Records
Crystal Gateway 4, Room 335
Washington, D.C. 20231
Box Assignment**

Sir:

LETTER

This Letter is to correct an error in the recorded Assignment document. Octave Communications, Inc. is a corporation duly organized and existing under the laws of **Delaware**, not New Hampshire as the recorded Assignment document at reel 010608, frame 0384 states.

Respectfully submitted,

Patrick O'Shea

Patrick J. O'Shea
Registration No. 35,305
Samuels, Gauthier & Stevens LLP
225 Franklin Street, Suite 3300
Boston, Massachusetts 02110
Telephone: (617) 426-9180
Extension: 121



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
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OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

MAY 10, 2000

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SAMUELS, GAUTHIER & STEVENS LLP
PATRICK J. O'SHEA
225 FRANKLIN STREET, SUITE 3300
BOSTON, MA 02110



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MAY 22 2000

SAMUELS, GAUTHIER &
STEVENS LLP

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RECORDATION DATE: 02/17/2000

REEL/FRAME: 010608/0384

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

GOLDSTEIN, JASON A.

DOC DATE: 01/24/2000

ASSIGNEE:

OCTAVE COMMUNICATIONS, INC.
5 INDUSTRIAL WAY
SALEM, NEW HAMPSHIRE 03079

SERIAL NUMBER: 09427669

FILING DATE: 10/23/1999

PATENT NUMBER:

ISSUE DATE:

PAULA MCCRAY, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

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4587

DECLARATION AND POWER OF ATTORNEY

I, the below named inventor, hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first, and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled, **SERIAL-TO-PARALLEL/PARALLEL-TO-SERIAL CONVERSION ENGINE** the specification of which was filed in the United States Patent and Trademark Office on October 23, 1999 as Serial No. 09/427,669. This application claims priority under 35 USC §119(e) from United States Provisional Patent Application Serial No. 60/105,369, filed October 23, 1998.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims.

I acknowledge the duty to disclose information which is material to patentability in accordance with Title 37, Code of Federal Regulations, Section 1.56.

I hereby declare that all statements made herein based on my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

And I hereby appoint:

Maurice E. Gauthier	- Reg. No. 20,798
I. Stephen Samuels	- Reg. No. 20,919
Richard L. Stevens	- Reg. No. 24,445
Matthew E. Connors	- Reg. No. 33,298
William E. Hilton	- Reg. No. 35,192
Patrick J. O'Shea	- Reg. No. 35,305
Arlene J. Powers	- Reg. No. 35,985
Steven M. Mills	- Reg. No. 36,610
Anthony P. Onello, Jr.	- Reg. No. 38,572

all of the firm of Samuels, Gauthier & Stevens, our attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

I request that all correspondence be directed to:

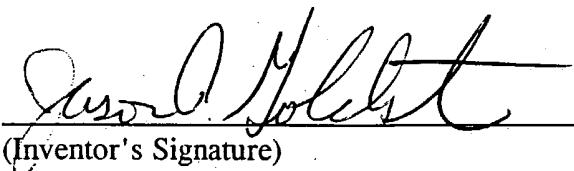
Samuels, Gauthier & Stevens, LLP
225 Franklin Street, Suite 3300
Boston, Massachusetts 02110

Attn: Patrick J. O'Shea

Jason A. Goldstein
(Full Name of Inventor)

1/21/2000
(Date)

U.S.A.
(Citizenship)


(Inventor's Signature)

76 Parkman Street, #1
Brookline, MA 02446-3413
(Residence)

Same as Residence
(Post Office Address)

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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Jason A. Goldstein

Application No./Patent No.: 09/427,669 Filed/Issue Date: October 23, 1999

Entitled: **SERIAL-TO-PARALLEL/PARALLEL-TO-SERIAL CONVERSION ENGINE**

Octave Communications, Inc., a New Hampshire corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. the assignee of the entire right, title, and interest; or
 2. an assignee of less than the entire right, title and interest.

The extent (by, percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 012089, Frame 0967, or for which a copy thereof is attached.

OR

B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

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2. From: _____ To: _____
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3. From: _____ To: _____
 The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

Copies of assignments or other documents in the chain of title are attached.

(NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08)

I, the undersigned (whose title is supplied below) am authorized to act on behalf of the assignee.

April 30, 2003

Date

William P. Ernstrom

Typed or printed name

Signature

President

Title

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**POWER OF ATTORNEY OR
AUTHORIZATION OF AGENT**

Application Number	09/427,659
Filing Date	October 23, 1999
First Named Inventor	Jason A. Goldstein
Title	SERIAL-TO-PARALLEL/PARALLEL-TO-SERIAL CONVERSION METHODS
Group Art Unit	2182
Examiner Name	Kim, Harold J.
Attorney Docket Number	7257/115

I hereby appoint:

 Practitioners at Customer Number

OR

 Practitioner(s) named below:

Name	Registration Number

Place Customer
Number Bar Code
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as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

 The above-mentioned Customer Number.

OR

 Practitioners at Customer Number

[Customer Number]

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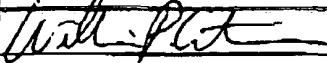
OR

<input checked="" type="checkbox"/> Firm or Individual Name	Robert C. Dorr, Esq.				
Address	Dorr, Carson, Sloan & Birney, P.C.				
Address	3010 E. 6th Avenue				
City	Denver	State	CO	Zip	80206
Country	USA				
Tel phone	303-333-3010	Fax			303-333-1470

I am the:

 Applicant/Inventor. Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).**SIGNATURE of Applicant or Assignee of Record**

Name William P. Ernstrom

Signature 

Date April 30, 2003

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

 Total of 1 forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.